

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of the claims in the Application. With reference to the listing it is noted that, herewith, claims 1, 7, 12, 15, 18, 19, 21, 24, and 27-30 are amended, claims 11 and 17 are canceled without prejudice or disclaimer, and claim 35 is added. No new matter has been added.

Listing of Claims

1. (Currently Amended) A method, comprising:
 - examining a connection from a client machine;
 - retrieving, from a service information table created in the client machine, a filter parameter for the connection; and
 - implementing the filter parameter as a filter for a multicast program.
2. (Previously Presented) The method according to claim 1 wherein a receiver is integrated with the client machine.
3. (Original) The method according to claim 1 wherein examining a connection further comprises examining a user datagram protocol (UDP) port.
4. (Original) The method according to claim 1 wherein the connection from a client machine is used to determine the filter parameter to be retrieved.

5. (Original) The method according to claim 1 wherein the filter parameter comprises a program identifier.

6. (Previously Presented) The method according to claim 1 wherein a receiver is a digital broadcast receiver.

7. (Currently Amended) A method, comprising:

examining a filter;

determining a connection the filter is associated with;

examining a plurality of connections from a client machine;

removing the filter if the connection from the client machine does not correspond to the connection the filter is associated with,

wherein a filter parameter is fetched from a service information table created in the client machine.

8. (Previously Presented) The method according to claim 7 wherein a receiver is integrated with the client machine.

9. (Original) The method according to claim 7 wherein examining a connection further comprises examining a user datagram protocol port.

10. (Original) The method according to claim 7 wherein determining further comprises determining whether there is a connection to the client machine.

Claim 11 (Canceled)

12. (Currently Amended) A method, comprising:

examining a message received from a client machine;

retrieving, from a service information table created in the client machine, a filter parameter for a connection to the client machine; and

implementing the filter parameter as a filter for a multicast program.

13. (Previously Presented) The method according to claim 12 wherein a receiver is integrated with the client machine.

14. (Previously Presented) The method according to claim 12 wherein a receiver is a digital broadcast receiver.

15. (Currently Amended) A method, comprising:

examining a message received from a client machine;

retrieving, from a service information table created in the client machine, a filter parameter for a connection to the client machine; and

removing a filter based on the filter parameter.

16. (Original) The method according to claim 15 wherein the message is an IGMP message.

Claim 17 (Canceled)

18. (Currently Amended) A method, comprising:

detecting an IGMP packet containing an instruction to join or leave a multicast group, said IGMP packet being associated with an entry in a service information table created in a receiving node;

removing a filter based on a filter parameter associated with the entry in the table that corresponds to the IGMP message having the instruction to leave a multicast group, wherein the filter parameter, upon which filter removal is based, is retrieved from the service information table; and

adding a filter based on a filter parameter associated with the entry in the table that corresponds to the IGMP packet having the instruction to enter a multicast group, wherein the filter parameter, upon which filter addition is based, is retrieved from the service information table.

19. (Currently Amended) A method, comprising:

comparing each entry in a UDP Listener Table to each entry in a ~~SFF~~ service information table created in a receiving node;

~~determining~~ retrieving, from the service information table, a filter parameter of a first type of entry, wherein the first type of entry is present in the UDP Listener Table and not present in the ~~SFF~~ service information table;

implementing a filter parameter of the first type of entry as a first filter;

~~determining~~ retrieving, from the service information table, the filter parameter of a second type of entry that is present in the ~~SIT~~ service information table and not present in the UDP Listener Table;

removing a second filter based on the filter parameter of the second type of entry.

20. (Previously Presented) The method according to claim 19 wherein the UDP Listener Table entry is identified as a multicast address by a local IP address.

21. (Currently Amended) A method, comprising:

detecting a multicast data connection;

associating the data connection with a filter parameter;

creating a socket;

binding the socket to a port number;

fetching, from a service information table created in a receiving node, the filter parameter; and

accepting data from the data connection,

wherein said data is processed based on the filter parameter.

22. (Previously Presented) The method according to claim 21 wherein a multicast receiving node includes a digital broadcast receiver.

23. (Original) The method according to claim 22 wherein fetching further comprises examining a table containing service information.

24. (Currently Amended) A method, comprising:

detecting a data connection being closed;

associating the data connection with a filter parameter;

leaving a multicast group;

fetching, from a service information table created in a receiving node, the filter

parameter;

removing a filter based on the filter parameter.

25. (Original) The method according to claim 24 wherein detecting further comprises continuously polling the user datagram protocol (UDP) Listener Table.

26. (Original) The method according to claim 25 wherein polling the UDP Listener Table further comprises identifying multicast data from the UDP Listener Table.

27. (Currently Amended) A method, comprising:

detecting a IGMP message;

retrieving a filter parameter from ~~an~~ a SIF service information table created in a receiving node;

activating a filter based on the filter parameter; and

changing a filter status in the ~~SIF~~ service information table.

28. (Currently Amended) A method, comprising:

polling a UDP Listener Table;

correlating a UDP entry with ~~an~~ a SIF service information table entry;

identifying ~~an~~ a SIF service information table entry having an active status as the filter status;

removing a data filter corresponding to a filter parameter of the identified ~~SIF~~ service information table entry, wherein the filter parameter is retrieved from a service information table created in a receiving node; and

changing the filter status of the ~~SIF~~ service information table entry.

29. (Currently Amended) An article of manufacture, comprising:

a computer readable medium including instructions for:

detecting an IGMP packet with instruction to join or leave a multicast group;

removing a filter for ~~an~~ a SIF service information table entry that corresponds to the IGMP packet having the instruction to end a subscription; and

adding a filter for ~~an~~ a SIF service information table entry that corresponds to the IGMP packet having the instruction to begin a subscription,

wherein a filter parameter is retrieved from a service information table created in a receiving node.

30. (Currently Amended) An article of manufacture, comprising:

a computer readable medium including instructions for:

finding ~~an~~ a SIT service information table entry that corresponds to a UDP entry having a local IP address associated with a port number of a multicast connection;
removing a filter that contains a filter parameter, retrieved from a service information table created in a receiving node, corresponding to ~~an~~ a SIT service information table entry with which there is no UDP entry associated; and
activating a filter for a filter parameter, retrieved from the service information table, that is in both tables and for which the filter is not applied.

31. (Original) The method according to claim 1 wherein the method is implemented in a wireless handheld terminal.

32. (Original) The method according to claim 18 wherein the method is implemented in a wireless handheld terminal.

33. (Original) The method according to claim 21 wherein the method is implemented in a wireless handheld terminal.

34. (Original) The method according to claim 28 wherein the method is implemented in a wireless handheld terminal.

35. (New) A terminal, comprising:

a memory device for storing a program; and

a processor in communication with the memory device, the processor operative with the program to:

examine a connection;

retrieve, from a service information table created in the terminal, a filter parameter for the connection; and

implement the filter parameter as a filter for a multicast program.